

HP ZBook Mobile Workstations FAQs



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General

What are HP ZBook G2 Mobile Workstations?

HP ZBook G2 Mobile Workstations are HP's newest family of revolutionary, next-generation mobile workstation solutions designed for the most demanding technical and creative professionals. Combining bold design, world-class engineering, robust tools and visual collaboration solutions, the HP ZBook G2 Mobile Workstation family—the HP ZBook 14 G2, HP ZBook 15u G2, HP ZBook 15 G2, and HP ZBook 17 G2—takes innovation, performance, and reliability to the next level to help give you and your business a competitive edge. HP ZBook G2 Mobile Workstations build on the strength and success of the HP Z Workstation and ZBook Mobile Workstation family. With HP's Z DNA, these new solutions are engineered to optimize the way processor, memory, graphics, OS, and software components work together to deliver highly mobile, whole-system computational power that helps you accomplish more with every minute of your time, wherever your work takes you.

- HP ZBook 14 G2 and HP ZBook 15u G2 - capture your inspiration wherever you go
 - HP's mobile workstation Ultrabooks™ redefine mobile computing. The innovative sleek design is impressive on the road, at client sites, and satellite offices
 - Get the performance you need with HP's thinnest and lightest mobile workstations equipped with Windows® 8.1, 5th generation Intel® Core™ processors², professional AMD FirePro™ 3D graphics, optional touch* and the HP Z Turbo Drive for exceptional storage performance
 - Confidently take on your workday with the durable and reliable HP ZBook 14 G2 and 15u G2 Mobile Workstations. They are designed to undergo MIL-STD 810G testing⁷ and have undergone 115,000 hours of testing in the HP Total Test Process

*offered on ZBook 14 G2

- HP ZBook 15 G2 – designed to perform
 - Our most versatile mobile workstation with choice of 4th generation refresh Intel® Core™ i5 or i7 processors² and with lasting battery life gives you the power you need to work anywhere
 - Take power to a new standard with Thunderbolt™ 2³, professional NVIDIA® Quadro® or AMD FirePro™ 3D graphics, HP Z Turbo Drive, and optional quad-core CPUs²
 - The rugged HP ZBook 15 G2 projects a professional image at the office and brings power on the road without sacrificing the durability of a lightweight chassis
- HP ZBook 17 G2 – expand your creative capabilities
 - With Thunderbolt™ 2³, professional NVIDIA® Quadro® or AMD FirePro™ 3D graphics, HP Z Turbo Drive, optional quad-core CPUs², and vast storage expandability the HP ZBook 17 G2 defines peak mobile workstation performance
 - The innovative design of the HP ZBook 17 G2 provides a scalable solution to workstation computing and remains easy enough to carry where work takes you
 - Maintain accurate, predictable colors that are consistent across your entire digital workflow. What you see on your display is true to the finished product, thanks to the optional HP DreamColor display

Will HP ZBook Mobile Workstations continue to have similar support (i.e. HP Elite Premium support)?

Yes, HP ZBooks will have the same support as the HP EliteBooks. This includes our 3-year (3-3-3) limited warranty and service offering which includes 3 years of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

What is the new HP Mobile Workstation naming strategy?

This generation of new HP Mobile Workstations are still managed by the HP Workstation team. Last generation mobile workstations took on the “Z” naming convention. This new product design was called “ZBook” and has a numerical identifier that distinguishes screen size. With the product line refresh, we have moved to “G2.” For example, the HP 15.6-inch ZBook is called “HP ZBook 15 G2,” etc.

When is HP announcing the new HP ZBook Mobile Workstations and when will they be available?

HP ZBook 15 G2 and 17 G2 Mobile Workstations were publicly announced on September 8, 2014. The HP ZBook 14 G2 and 15u G2 were announced in January 2015.

What products are being replaced by the new HP ZBook Mobile Workstations?

The HP ZBook 17 G2 and HP ZBook 15 G2 replace the HP ZBook 17 and HP ZBook 15, respectively. The HP ZBook 15/17 products will be discontinued at the end of March 2015. The extended discontinuation dates allow our customers to have a 5-6 month period to transition and deploy the new HP Mobile Workstation platforms. The HP ZBook 14 G2 is replacing the current HP ZBook 14. The HP ZBook 15u G2 is a new entrant.

Are the G2 series HP ZBooks available worldwide?

Yes. All of the new models are available worldwide. We are working to include all the mobile G2 ZBooks as part of the Global Series offerings.

What is the starting price of the new HP ZBook Mobile Workstations?

Pricing will vary by region/country and configurations.

What are the key requirements for a typical HP ZBook Mobile Workstation customer?

Key requirements are:

- Highest-performing mobile CPU for best possible workstation application performance
- Highest-performing workstation-class graphics with hardware accelerated OpenGL graphics support
- ISV certifications for reliable application performance
- Optimized mobile workstation form factor
- True 64-bit computing environment
- High-quality display panel technology
- Reliability and durability
- Appealing industrial design
- Common commercial accessories & docks

What type of users are the HP ZBook Mobile Workstations designed for?

Creative or design specialists, travelers, and knowledge workers that need high-performance mobile workstations designed for reliable performance with demanding applications.

What is the logic behind the HP ZBook Mobile Workstation industrial design?

The HP Mobile Workstation team chose a bold hematite and graphite color combination that represents power, performance, and high-end aesthetics. This color combination is used across many other commercial platforms, but the HP ZBooks have unique design elements. One design element unique to HP ZBooks is the soft-touch paint border around the A-cover of the unit. This soft-touch paint provides added aesthetics and is applied to “high traffic” areas that might otherwise be exposed to excessive fingerprint smudging. The wedge design provides necessary thermal support, optimal I/O locations, and a more ergonomic experience during standard typing and usage.

What materials are used in the new HP ZBook Mobile Workstation platforms?

The HP ZBook Mobile Workstations are constructed from aluminium and magnesium with other metal alloys and rubber elements. These materials create the best possible combination of durability, light weight, and low flexibility.

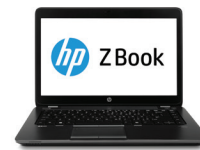
Where do HP ZBook Mobile Workstations fit in the overall HP family of Business Notebook PCs?

The HP ZBook Mobile Workstations are HP’s best combination of high-performance features and ISV-certified graphics in a business-rugged design. They uniquely provide full performance quad-core CPUs², professional 3D graphics solutions from NVIDIA® and AMD, Thunderbolt™ 2³ ports for high-speed connectivity, tremendous expandability for large memory and/or large storage configurations, HP DreamColor⁴ panel choices for color-critical workflows, HP Remote Graphics Software⁵, HP Performance Advisor⁶, tool-free serviceability, and ISV certifications from a broad selection of workstation-class applications.

What are the key differences between the HP ZBook Mobile Workstations and the HP EliteBook Business Notebooks?

Differences between the HP EliteBook Business Notebooks and the HP ZBook Mobile Workstations can be seen in areas of industrial design, memory, storage, reliability, graphics, and warranty. See the detailed table below.

How do the HP EliteBook 800 series Notebooks compare to HP ZBook Mobile Workstations?



	HP EliteBook 800 series Notebook	HP ZBook Mobile Workstations also deliver*
Form factors	• 14.0-inch diagonal • 15.6-inch diagonal	• 14.0-inch diagonal • 15.6-inch diagonal • 17.0-inch diagonal
Expandability	• Up to 16 GB memory⁹ • Up to 2 HDD storage¹⁰	• Up to 32 GB memory⁹ • Up to 4 HDD storage¹⁰ bays • Thunderbolt™³ 2 port for faster data transfers • HP Z Turbo Drive (PCIe SSD) for accelerated storage performance • Intel® quad-core processors² • Support for FHD and QHD+ displays • HP DreamColor⁴ panel option
Reliability	• Business-rugged, MIL-STD 810G testing⁷ • HP DuraCase • HP DuraKeys • Precision stamped full magnesium alloy chassis • Chemically strengthened glass touchpad • Cast titanium alloy display latch • Support for RAID (0,1)¹⁵	All the reliability features in the HP EliteBook 800 series Notebook plus: • Rigorous ISV testing and certifications • Support for RAID (0, 1, 5)¹⁵ • Productivity-boosting software tools such as HP Performance Advisor⁶ and HP Remote Graphics Software⁵ preloaded
Graphics	UMA, or AMD Radeon™ graphics	ISV-certified, workstation-caliber AMD FirePro™ or NVIDIA® Quadro® professional graphics
Warranty	1/1/0 or 3/3/0 support, on site service is extra	3/3/3 or 3/3/0 support**

* Many workstation technologies are selectable options. Specifications can vary by workstation platform.

** Varies by region

Brand and industrial design

What are the key industrial design elements of the new HP ZBook Mobile Workstations?

- Precision engineering
- Premium materials/finishes
- Business-rugged/designed to pass various MIL-STD tests⁷
- Thinner/lighter
- Choice of workstation Ultrabook™ with the HP ZBook 14/15u G2 OR no compromise mobile performance with the HP ZBook 15/17 G2
- Superior display panel technology with outstanding resolution and color accuracy
- New tool-free serviceability (ex. tool-free HDD removal)
- Removable battery
- High-end processing and graphics options
- Precise cooling and acoustics

HP ZBook 14 G2 Mobile Workstation

What is special about the new HP ZBook 14 G2 Mobile Workstation?

The HP ZBook 14 G2 is HP's thinnest and lightest workstation Ultrabook™. This customizable workstation contains the latest Intel® Core™ processors, professional AMD FirePro™ 3D graphics with AMD Enduro™ Technology, up to 16 GB memory, and is designed to pass various MIL-STD tests. It can handle up to 2 internal storage devices (up to 1.25 TB), including the HP Z Turbo Drive (PCIe SSD) and has an optional touch display now available in FHD resolution.

How does the HP ZBook 14 G2 compare to the HP ZBook 14?

		HP ZBook 14	HP ZBook 14 G2
Dimensions	Depth	237mm/9.33"	237mm/9.33"
	Width	339mm/13.35"	339mm/13.35"
	Height (front)	21mm/.83"	21mm/.83"
Weight w/o ODD*		1.71kg/3.77lb	1.71kg/3.77lb
Display⁸		HD/HD+ (SVA), HD+ (SVA) Touch, FHD (UWVA)	HD/HD+ (SVA), FHD (UWVA) Touch, FHD (UWVA)
Chipset		N/A	N/A
Processor²		4 th generation dual-core ULT Intel® Core™ i7 and i5 CPUs	5 th Generation Intel® Core™ i7 5600U (2.6 GHz, 4 MB cache, 2 cores)* Up to 3.2 GHz with Intel Turbo Boost Technology
			5 th Generation Intel® Core™ i7 5500U (2.4 GHz, 4 MB cache, 2 cores)* Up to 3.0 GHz with Intel Turbo Boost Technology
			5 th Generation Intel® Core™ i5 5300U (2.3 GHz, 3 MB cache, 2 cores)* Up to 2.9 GHz with Intel Turbo Boost Technology
			5 th Generation Intel® Core™ i5 5200U (2.2 GHz, 3 MB cache, 2 cores)* Up to 2.7 GHz with Intel Turbo Boost Technology
Graphics		AMD FirePro™ M4100 (1G GDDR5)	AMD FirePro™ M4150 (1G GDDR5)
Memory⁹		DDR3L 1600MHz up to 16 GB	DDR3L 1600MHz up to 16 GB
Internal Storage¹⁰	7200 rpm	Up to 1 TB	Up to 1 TB
	5400 rpm	Up to 1 TB	Up to 500 GB
	SDD	Up to 512 GB	Up to 512 GB
	HP Z Turbo Drive	N/A	Up to 256GB
ODD¹¹		N/A	N/A
Battery		3-cell long life 50 Whr Optional 6 cell slice battery (external)	3-cell long life 50 Whr Optional 6 cell slice battery (external)
Battery life¹²		Awaiting battery life benchmarks	Awaiting battery life benchmarks
Adapter		Smart AC Adapter (65w)	Smart AC Adapter (65w)
Ports		(1) USB 3.0 charging, (3) USB 3.0, DisplayPort 1.2, RJ-45 (Ethernet), VGA, combo headphone/microphone, side docking connector, power connector, secondary battery connector	(1) USB 3.0 charging, (3) USB 3.0, DisplayPort 1.2, RJ-45 (Ethernet), VGA, combo headphone/microphone, side docking connector, power connector, secondary battery connector

* With 50whr battery

What processors does the HP ZBook 14 G2 offer and why doesn't it offer quad-core CPUs?

The following 5th generation Intel® Core™ i5 and i7 processors² are offered:

- Intel® Core™ i7-5600U with Intel® HD Graphics 5500 (2.6 GHz, 4 MB cache, 2 cores)²
- Intel® Core™ i7-5500U with Intel® HD Graphics 5500 (2.4 GHz, 4 MB cache, 2 cores)²
- Intel® Core™ i5-5300U with Intel® HD Graphics 5500 (2.3 GHz, 3 MB cache, 2 cores)²
- Intel® Core™ i5-5200U with Intel® HD Graphics 5500 (2.2 GHz, 3 MB cache, 2 cores)²

All of these processors are dual-core because we opted for a very thin and light form factor which doesn't allow enough space for the thermal requirements to include quad-core CPUs.

How will the Intel® Ultrabook™ (ULT) processors perform on real-world, workstation-class applications?

The ULT processors on the HP ZBook 14 G2 work with the discrete AMD FirePro™ graphics to provide up to mid-level workstation-class performance. However, for heavily threaded applications or users requiring the greatest CPU performance, the HP ZBook 15 G2 and 17 G2 should be considered.

What is the docking solution for the HP ZBook 14 G2?

The HP ZBook 14 G2 uses a side docking solution due to its thin design. The bottom docking on the HP ZBook 15 G2 and HP ZBook 17 G2 will not fit on the Ultrabook™ chassis of the HP ZBook 14 G2. This side docking solution will be refreshed to include dual digital display outputs. It will also be shared by several other HP Commercial Notebook systems, including the EliteBook 840 G2 and 850 G2.

HP ZBook 15u G2 Mobile Workstation**What is special about the new HP ZBook 15u G2 Mobile Workstation?**

The HP ZBook 15u G2 is HP's thinnest and lightest 15.6-inch diagonal screen workstation Ultrabook™. This customizable workstation contains the latest Intel® Core™ processors, professional AMD FirePro™ 3D graphics with AMD Enduro™ Technology, up to 16 GB memory, and is designed to pass various MIL-STD tests. It can handle up to 2 internal storage devices (up to 1.25 TB), including the new HP Z Turbo Drive (PCIe SSD) and comes with an optional full HD IPS display.

What are the specs for the new HP ZBook 15u G2?

Dimensions	Depth	253.6mm/9.98"
	Width	375.5mm/14.78"
	Height (front)	21.42mm/.84"
Weight	w/o ODD	1.92kg/4.23lb
Display⁸	FHD (SVA), FHD (UWVA)	
Chipset	N/A	
Processor²	5th generation Intel® Core™ CPUs	
Graphics	Intel® HD 5500 Graphics AMD FirePro™ M4170 FireGL (1 GB dedicated GDDR5) Microsoft DirectX 11.1 (Shader Model 5.0) and OpenGL 4.2 capable	
Memory⁹	DDR3L 1.35V SDRAM (1600 MHz) up to 16 GB	
Internal Storage¹⁰	7200 rpm	Up to 1 TB
	5400 rpm	Up to 500 GB
	SDD	Up to 512 GB
	HP Z Turbo Drive	Up to 256 GB
ODD¹¹	N/A	
Battery	Primary 3-cell Long Life Polymer 50WHr Optional 6-cell Long Life 60WHr	
Battery life¹²	Awaiting battery life benchmarks	
Adapter	Smart AC Adapter (65w)	
Ports	(1) DisplayPort 1.2 (1) USB 3.0 Charging Port (3) USB 3.0 Port (1) RJ-45 / Ethernet (1) Side Docking connector (1) Secondary battery connector (1) Headphone/Microphone Combo (1) AC Port	

What processors does the HP ZBook 15u G2 offer and why doesn't it offer quad-core CPUs?

The following 5th generation Intel® Core™ i5 and i7 processors² are offered:

- Intel® Core™ i7-5600U with Intel® HD Graphics 5500 (2.6 GHz, 4 MB cache, 2 cores)²
- Intel® Core™ i7-5500U with Intel® HD Graphics 5500 (2.4 GHz, 4 MB cache, 2 cores)²
- Intel® Core™ i5-5300U with Intel® HD Graphics 5500 (2.3 GHz, 3 MB cache, 2 cores)²
- Intel® Core™ i5-5200U with Intel® HD Graphics 5500 (2.2 GHz, 3 MB cache, 2 cores)²

All of these processors are dual-core because we opted for a very thin and light form factor which doesn't allow enough space for the thermal requirements to include quad-core CPUs.

How will the Intel® Ultrabook™ processors perform on real-world, workstation-class applications?

The ULT processors on the HP ZBook 15u G2 will work with the discrete AMD FirePro™ graphics to provide up to mid-level workstation-class performance. However, for heavily threaded applications or users requiring the greatest CPU performance, the HP ZBook 15 G2 and 17 G2 should be considered.

What is the docking solution for the HP ZBook 15u G2?

The HP ZBook 15u G2 uses a side docking solution due to its thin design. The bottom docking on the HP ZBook 15 G2 and HP ZBook 17 G2 will not fit on the Ultrabook™ chassis of the HP ZBook 15u G2. This side docking solution will be refreshed to include dual digital display outputs. It will also be shared by several other HP Commercial Notebook systems, including the HP Elitebook 840 G2 and 850 G2.

How does the HP ZBook 15u G2 compare to the HP ZBook 14 G2?

The HP ZBook 15u G2 has the same chassis and I/O ports arrangement. Additionally, it has the same processor, memory, and storage assortment. The differences are as follows:

- HP ZBook 15u G2 has a larger screen size measuring at 15.6-inch diagonal
- HP ZBook 15u G2 has full HD display resolution available in both SVA and UWVA. HP ZBook 14 G2 offers HD SVA, HD+SVA, and FHD UWVA and FHD UWVA Touch
- HP ZBook 15u G2 has a z-height of 21.4mm while the ZBook 14 G2 has a z-height of 21mm
- HP ZBook 15u G2 contains a higher performing AMD FirePro™ 3D graphics card (AMD FirePro™ M4170 1GB GDDR5 vs. AMD FirePro™ M4150 1GB GDDR5)

How does the HP ZBook 15u G2 compare to the HP ZBook 15 G2?

- If you prefer max expandability with quad-core processors, numeric keypad, optical, and Thunderbolt™, the mainstream ZBook 15 G2 is still the optimum solution. If you are looking for a low cost, thin and light form factor, the ZBook 15u is the recommended solution
- Both platforms have a screen size measuring at 15.6-inch diagonal and FHD display panel options available in SVA and UWVA
- HP ZBook 15u leverages Intel® 5th generation processors and HP ZBook 15 G2 leverages Intel® 4th generation refresh standard voltage dual-core and quad-core i5/i7 processors
- HP ZBook 15u G2 utilizes AMD FirePro™ 3D graphics card and the HP ZBook 15 G2 offers a portfolio of NVIDIA® Quadro® and AMD FirePro™ 3D graphics
- HP ZBook 15u has a starting weight of 4.23lbs and z-height of 21.4 mm and the HP ZBook 15 G2 has a starting weight under 6.5lbs and z-height of 30.5 mm (front) / 35.5 mm (rear)

How does the HP ZBook 15u G2 compare to the HP Elitebook 850 G2?

- The HP ZBook 15u G2 has the same chassis and I/O ports arrangement as the HP Elitebook 850 G2.
- HP ZBook 15u G2 has full HD display resolution available in both SVA and IPS UWVA. HP Elitebook 850 G2 does not offer the full HD IPS UWVA display but does offer full HD SVA Touch capacitive
- Both platforms have the same z-height at 21.4 mm
- Both platforms offer up to 16 GB memory
- HP ZBook 15u G2 contains a ISV-certified, workstation-caliber AMD FirePro™ 3D graphics card while HP EliteBook 850 G2 offers Intel UMA Graphics and AMD Radeon™ Graphics
- Both platforms offer the same primary storage offering assortment
- HP ZBook 15u G2 standardizes on the new HP Z Turbo Drive (PCIe SSD) for M.2 storage offerings while the HP Elitebook 850 G2 will continue to offer 32 GB flash cache SSD and M.2 SATA storage solutions

HP ZBook 15 G2 Mobile Workstation**What is special about the HP ZBook 15 G2 Mobile Workstation?**

The HP ZBook 15 G2 contains Intel® 4th generation refresh processors in both dual core and quad core², professional NVIDIA® Quadro® graphics with Optimus® technology or, newly added this generation, the choice of AMD FirePro™ graphics with AMD Enduro™ Technology, up to 32 GB memory⁸, Thunderbolt™ 2³, and is designed to pass various MIL-STD tests⁷. It can handle up to 3 internal storage devices (up to 2.25 TB) including the new HP Z Turbo Drive (M.2 PCIe) and has a new QHD+ display option.

How does the HP ZBook 15 G2 compare to the HP ZBook 15?

		HP ZBook 15	HP ZBook 15 G2
Dimensions	Depth	257mm/10.1"	257mm/10.1"
	Width	381.5mm/15.0"	381.5mm/15.0"
	Height (front)	30.5mm/1.52"	30.5mm/1.52"
	Height (rear)	35.5mm/1.40"	35.5mm/1.40"
Weight	w/o ODD	2.82kg/6.20lb	2.82kg/6.20lb
Display⁸		FHD (1920x1080, AG/SVA) FHD (1920x1080, AG/UWVA) FHD DreamColor ⁴ (1920x1080, AG/WVA)	FHD (1920x1080, AG/SVA) FHD (1920x1080, AG/UWVA) FHD DreamColor⁴ (1920x1080, AG/WVA) QHD+ (3200x1800, AG/UWVA)
Chipset		Mobile Intel® QM87	Mobile Intel® QM87
Processor²		4th generation quad-core Intel® Core™ i7 4th generation dual-core Intel® Core™ i7 and i5 CPUs	4th generation quad-core Intel® Core™ i7 4th generation dual-core Intel® Core™ i7 and i5 CPUs (refresh)
Graphics		NVIDIA® Quadro® K2100M (2GB GDDR5) NVIDIA® Quadro® K1100M (2GB GDDR5) NVIDIA® Quadro® K610M (1GB GDDR5)	NVIDIA® Quadro® K2100M (2GB GDDR5) NVIDIA® Quadro® K1100M (2GB GDDR5) AMD FirePro™ M5100 (2GB GDDR5) NVIDIA® Quadro® K610M (1GB GDDR5)
Memory⁹		DDR3L 1600MHz up to 32 GB	DDR3L 1600MHz up to 32 GB
Internal Storage¹⁰	7200 rpm	Up to 750 GB	Up to 1 TB
	5400 rpm	Up to 1 TB	Up to 1 TB
	SDD	Up to 256 GB	Up to 512 GB
	M.2	128 GB (SATA) 32 GB SRT Module	256 GB (PCIe) – HP Z Turbo Drive 32 GB SRT Module
ODD¹¹		DVD-ROM, DVD R/W, Blu-ray ROM + DVD R/W, Blu-Ray R/W + DVD R/W	DVD-ROM , DVD R/W, Blu-ray ROM + DVD R/W, Blu-Ray R/W + DVD R/W
Battery		8-cell 83 WHr 8-cell long life 75 WHr Secondary Batteries: HP ST09 Extended Life HP BB09 Ultra Extended Life	8-cell 83 WHr 8-cell long life 75 WHr Secondary Batteries: HP ST09 Extended Life HP BB09 Ultra Extended Life
Battery life¹²		Up to 14 hours	Testing not final
Adapter		Smart AC Adapter (150w/200w)	Smart AC Adapter (150w/200w)
Ports		(1) Thunderbolt™ ³ (mini-DP 1.2), (2) USB 3.0, (1) USB 3.0 w/ USB powered/charging), (1) USB 2.0, DisplayPort 1.2, RJ-45 (Ethernet), VGA, combo headphone/microphone, docking connector, secondary battery connector, power connector	(1) Thunderbolt™ 2³ (mini-DP 1.2), (2) USB 3.0, (1) USB 3.0 w/ USB powered/charging), (1) USB 2.0, DisplayPort 1.2, RJ-45 (Ethernet), VGA, combo headphone/microphone, docking connector, secondary battery connector, power connector

What processors does the HP ZBook 15 G2 offer?

The following 4th generation Intel® Core™ i5 and i7 processors² will be offered:

- Intel® Core™ i7-4910MQ (2.90 GHz, 1600MHz, 8 MB L3 cache, 4 cores)²
- Intel® Core™ i7-4810MQ (2.80 GHz, 1600MHz, 6 MB L3 cache, 4 cores)²
- Intel® Core™ i7-4710MQ (2.50 GHz, 1600MHz, 6 MB L3 cache, 4 cores)² (Transactional Processor)
- Intel® Core™ i7-4610M (3.0 GHz, 1600MHz 4 MB L3 Cache, 2 cores)²
- Intel® Core™ i5-4340M (2.90 GHz, 1600MHz, 3 MB L3 Cache, 2 cores)²
- Intel® Core™ i5-4210M (2.60 GHz, 1600MHz 3 MB L3 Cache, 2 cores)² (Transactional Processor)

What is the QHD+ display panel choice on the HP ZBook 15 G2?

QHD+ panels offer extremely high resolution (3200x1800) for maximum screen real estate and vibrant, clear pictures.

Are the batteries and other accessories from the HP EliteBook 8570w and ZBook 15 compatible with the new HP ZBook 15 G2?

Although the internal batteries are similar, they are not forward or backward compatible between HP ZBook and HP EliteBook Mobile Workstations.

The ZBook 15 and the external (travel) batteries from either generation, however, are compatible and can be used on both generations of 15-inch and 17-inch platforms. The common docking stations used on the HP EliteBook 8570w/ ZBook 15 will work with the HP ZBook 15 and 17 G2 platforms as well.

HP ZBook 17 G2 Mobile Workstation

What is special about the new HP ZBook 17 G2 Mobile Workstation?

The HP ZBook 17 G2 contains the Intel® 4th generation refresh processors in both dual core and quad core², professional NVIDIA® Quadro® graphics with NVIDIA® Optimus® technology and up to 8 GB frame buffer or, newly added this generation, the choice of AMD FirePro™ graphics with AMD Enduro™ Technology, up to 32 GB memory⁸, Thunderbolt™ 2³, and is designed to pass various MIL-STD tests⁷. It can handle up to 3 internal storage devices (up to 3.25 TB), including the new HP Z Turbo Drive (M.2 PCIe) and has a 17.3-inch diagonal HP DreamColor display⁴ option.

How does the HP ZBook 17 G2 compare to the HP ZBook 17?

		HP ZBook 17	HP ZBook 17 G2
Dimensions	Depth	272mm/10.7	272mm/10.7
	Width	416mm/16.37"	416mm/16.37"
	Height (front)	34.0mm/1.33"	34.0mm/1.33"
	Height (rear)	40.0mm/1.57"	40.0mm/1.57"
Weight	w/o ODD	3.41kg/7.5lb	3.41kg/7.5lb
Display⁸		HD+ (1600x900, AG/SVA) FHD (1920x1080, AG/WVA) FHD DreamColor ⁴ (1920x1080, AG/UWVA)	HD+ (1600x900, AG/SVA) FHD (1920x1080, AG/WVA) FHD DreamColor ⁴ (1920x1080, AG/UWVA)
Chipset		Mobile Intel® QM87	Mobile Intel® QM87
Processor²		4th generation quad-core Intel® Core™ i7 4th generation dual-core Intel® Core™ i7 and i5 CPUs	4th generation quad-core Intel® Core™ i7 4th generation dual-core Intel® Core™ i7 and i5 CPUs (refresh)
Graphics		NVIDIA® Quadro® K5100M (8GB GDDR5) NVIDIA® Quadro® K4100M (4GB GDDR5) NVIDIA® Quadro® K3100M (4GB GDDR5) NVIDIA® Quadro® K1100M (2 GB GDDR5)	NVIDIA® Quadro® K5100M (8GB GDDR5) NVIDIA® Quadro® K4100M (4GB GDDR5) NVIDIA® Quadro® K3100M (4GB GDDR5) NVIDIA® Quadro® K2200M (2 GB GDDR5) NVIDIA® Quadro® K1100M (2 GB GDDR5) AMD FirePro™ M6100 (2 GB GDDR5)
Memory⁹		DDR3L 1600MHz up to 32 GB	DDR3L 1600MHz up to 32 GB
Internal Storage¹⁰	7200 rpm	Up to 750 GB	Up to 1 TB
	5400 rpm	Up to 1 TB	Up to 1 TB
	SDD	Up to 256 GB	Up to 512 GB
	M.2	128 GB (SATA) 32 GB SRT Module	256 GB (PCIe) – HP Z Turbo Drive 32 GB SRT Module
ODD¹¹		DVD-ROM, DVD R/W, Blu-ray ROM + DVD R/W, Blu-Ray R/W + DVD R/W	~~DVD-ROM~~ , DVD R/W, Blu-ray ROM + DVD R/W, Blu-Ray R/W + DVD R/W
Battery		8-cell 83 WHr 8-cell long life 75 WHr Secondary Batteries: HP ST09 Extended Life HP BB09 Ultra Extended Life	8-cell 83 WHr 8-cell long life 75 WHr Secondary Batteries: HP ST09 Extended Life HP BB09 Ultra Extended Life
Battery life¹²		Up to 12 hours	Testing not final
Adapter		Smart AC Adapter (200w/230w)	Smart AC Adapter (200w/230w)

Ports	(1) Thunderbolt™ ³ (mini-DP 1.2), (2) USB 3.0, (1) USB 3.0 w/ USB powered/charging), (1) USB 2.0, DisplayPort 1.2, RJ-45 (Ethernet), VGA, combo headphone/microphone, docking connector, secondary battery connector, power connector	(1) Thunderbolt™ ² (mini-DP 1.2), (2) USB 3.0, (1) USB 3.0 w/ USB powered/charging), (1) USB 2.0, DisplayPort 1.2, RJ-45 (Ethernet), VGA, combo headphone/microphone, docking connector, secondary battery connector, power connector
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What processors does the HP ZBook 17 G2 offer?

The following 4th generation Intel® Core™ i5 and i7 processors² will be offered:

- Intel® Core i7-4940MX (3.1 GHz, 1600 MHz, 8 MB L3 Cache, 4 cores)²
- Intel® Core™ i7-4910MQ (2.90 GHz, 1600MHz, 8 MB L3 cache, 4 cores)²
- Intel® Core™ i7-4810MQ (2.80 GHz, 1600MHz, 6 MB L3 cache, 4 cores)²
- Intel® Core™ i7-4710MQ (2.50 GHz, 1600MHz, 6 MB L3 cache, 4 cores)² (Transactional Processor)
- Intel® Core™ i7-4610M (3.0 GHz, 1600MHz, 4 MB L3 Cache, 2 cores)²
- Intel® Core™ i5-4340M (2.90 GHz, 1600MHz, 3 MB L3 Cache, 2 cores)²
- Intel® Core™ i5-4210M (2.60 GHz, 1600MHz, 3 MB L3 Cache, 2 cores)² (Transactional Processor)

Why is there no touch panel option on the HP ZBook 17 G2?

Touch panel technology is still relatively new and will increase in demand as newer, touch-friendly operating systems become more common. For now, customers interested in touch panels may choose from external panels or our HP ZBook 14 product options.

HP ZBook G2 graphics

What graphics solutions are available on each HP ZBook model?

		HP ZBook 14 G2	HP ZBook 15u G2	HP ZBook 15 G2	HP ZBook 17 G2
Professional 2D	Intel® HD graphics	Intel® integrated graphics only used when NVIDIA® Optimus® or AMD Enduro™ Technology are enabled.			
Professional 3D	AMD FirePro™ M4150 (1GB GDDR5)	X			
	AMD FirePro™ M4170 (1GB GDDR5)		X		
	NVIDIA® Quadro® K610M (1GB GDDR5)			X	
	NVIDIA® Quadro® K1100M (2GB GDDR5)			X	X
	AMD FirePro™ M5100 (2GB GDDR5)			X	
	NVIDIA® Quadro® K2100M (2GB GDDR5)			X	
	AMD FirePro™ M6100 (2GB GDDR5)				X
	NVIDIA® Quadro® K2200M (2GB GDDR5)				X
	NVIDIA® Quadro® K3100M (4GB GDDR5)				X
	NVIDIA® Quadro® K4100M (4GB GDDR5)				X
	NVIDIA® Quadro® K5100M (8GB GDDR5)				X

What are the recommended maximum display configurations by platform?

All resolutions @60Hz refresh rate. VGA/DVI displays up to 24bpp and DP displays up to 30bpp color depth. Dual-link DVI requires an active USB-powered adapter.

- HP ZBook 14 G2 and 15u G2:
 - Undocked:
 - 3 total displays: System DP (3840x2160), system VGA (1920x1200), internal panel (up to 1920x1080)
 - Docked to HP Ultralim Docking Station:
 - Any of 3 total displays: System DP (3840x2160@60Hz), dock VGA (1920x1200), internal panel (up to 1920x1080), and dock DP1+DP2 (2560x1600 for both, or 3840x2160 for just 1 port)
- HP ZBook 15 G2 and 17 G2:

- Undocked:
 - 4 total displays: System DP (4096x2160), system VGA (1920x1200), internal panel (up to 1920x1080), Thunderbolt DP (4096x2160)
 - Note: System DP and System VGA only available when undocked
- Docked to Advanced Port Replicator:
 - Any of 5 total displays: Thunderbolt DP (4096x2160) + dock DP1(4096x2160) + dock DP2(4096x2160) + dock VGA(1920x1200) + internal panel (up to 1920x1080) + dock DVI1(1920x1200) + Dock DVI2(1920x1200).
 - Note: Dock DVI ports are mutually exclusive with the respective dock DP port

For more detailed information on multiple displays on HP ZBook Mobile Workstations, please refer to the technical white paper found here: h20195.www2.hp.com/V2/GetPDF.aspx/4AA5-2657ENW

How is an external 4K monitor supported on-board and docking?

- HP ZBook 14/15u G2:
 - 3840x2160@60Hz and 24/30bpp, system and dock DP ports
 - The DisplayPort bandwidth is shared on the HP Ultrastim Docking Station, so only (1) 3840x2160@60Hz monitor is supported
 - With 2 DP displays on the dock, the maximum per display is 2560x1600@60Hz + 24/30bpp
- HP ZBook 15/17 G2:
 - 4096x2160@60Hz and 24/30bpp, system and dock DP ports + Thunderbolt port

HP ZBook G2 drives and storage

How many storage devices do each of the HP ZBook Mobile Workstations support and what is the maximum capacity supported?

Storage devices vary by HP ZBook model according to the chart below:

	Max 2.5 drives/bays	Max HP Z Turbo Drives	Max total capacity
HP ZBook 14 G2	1	1	1.25 TB
HP ZBook 15u G2	1	1	1.25 TB
HP ZBook 15 G2	2	1	2.25 TB
HP ZBook 17 G2	3	1	3.25 TB

Do the HP ZBook Mobile Workstations offer and support solid-state drives?

Yes, our SSD offerings are listed below.

	SSD drive support
HP ZBook 14 G2	128 GB SATA III SSD 180 GB SATA III SSD 240 GB SATA III SSD 256 GB SATA III SSD 512 GB SATA III SSD
HP ZBook 15u G2	128 GB SATA III SSD 180 GB SATA III SSD 240 GB SATA III SSD 256 GB SATA III SSD 512 GB SATA III SSD
HP ZBook 15 G2	128 GB SATA III SSD 180 GB SATA III SSD 240 GB SATA III SSD 256 GB SATA III SSD 512 GB SATA III SSD
HP ZBook 17 G2	128 GB SATA III SSD 180 GB SATA III SSD 240 GB SATA III SSD 256 GB SATA III SSD 512 GB SATA III SSD

What is the HP Z Turbo Drive and how is it different than the M.2 and mSATA drives previously offered?

The HP Z Turbo drive is a PCIe interface SSD drive that is faster than the previously offered SATA connection. It reduces boot up, calculation, and graphics response times (even with 4K video) and revolutionizes how your HP ZBook Mobile Workstation handles large files. It is a remarkably affordable and innovative storage solution for fast data access.

Thunderbolt™ 2**Why did HP decide to include a Thunderbolt™ 2³ port on the new HP ZBook 15/17 Mobile Workstations?**

Thunderbolt™ 2³ provides the highest speed I/O and is required by the most demanding users to maximize the overall performance of the workstation.

Why didn't HP include Thunderbolt™ support on the HP ZBook 14/15u G2?

The HP ZBook 14 G2 and 15u G2 are highly mobile workstation platforms that do not have the same throughput requirements as the HP ZBook 15 and 17 products. With a highly portable chassis, the HP ZBook 14 G2 and 15u G2 meet the needs of customers demanding performance and portability with few compromises. Even though Thunderbolt™ was not added, four USB 3.0 ports will be available.

Is the Thunderbolt™ port on the HP ZBook 15/17 G2 Mobile Workstations “Thunderbolt™ 2” or first-generation Thunderbolt™?

The HP ZBook 15 G2 and 17 G2 have Thunderbolt™ 2³ ports standard.

How does Thunderbolt™ 2³ compare to USB 3.0?

Thunderbolt™ 2³ provides 4x the throughput of USB 3.0.

What is the difference between Thunderbolt™ and Thunderbolt™ 2³?

Bandwidth. Thunderbolt™ enables 10 Gbps; Thunderbolt™ 2³ is 20 Gbps.

What are the top features of the Thunderbolt™ 2³?

Top features include:

- 20 GB/s per channel, bidirectional, dual-protocol, PC interconnect
- Thunderbolt™ 2 connector is backward compatible to mini-DisplayPort (mDP) connector
- Supports legacy DisplayPort and Thunderbolt™ devices
- Daisy chain up to 6 Thunderbolt™ devices and 1 native DisplayPort display

Operating systems**What operating systems (OSs) are available on the new HP ZBook Mobile Workstations?**

A variety of OSs are available, including the following: (Please note that the exact OSs carried by each workstation vary by product. For more information, see individual product data sheets and QuickSpecs.)

- Genuine Windows® 7 Professional 64-bit¹³
- Genuine Windows 8.1 Professional 64¹³
- Genuine Windows 8.1 64¹³
- Ubuntu Linux® version 14.04

Is dual OS preload an option?

Dual OS preload will not be offered due to restrictions of licensing agreements.

What type of Windows 7 32-bit support is available?

Windows 7 32-bit is available as a pre-installed operating system; therefore, there is recovery media available. Please note that drivers are available on the web as it is a supported OS.

Do the HP ZBook Mobile Workstations support Linux®?

Yes. Red Hat® Enterprise Linux® Desktop/Workstation is available as a “drop-in-the-box” 1 year paper license. RHEL 4

is not supported on G2 HP Workstations models. Ubuntu Linux® version 14.04 is available on all workstations. For a complete list of Linux® supported hardware, go to hp.com/support/linux_hardware_matrix

What is the HP Installer Kit for Linux®?

The HP Installer Kit for Linux® (HPIKL) is a set of HP-provided CDs to be used in conjunction with a RHEL or Ubuntu installation to complete your Linux® workstation installation. Included on the HPIKL are:

- HP Driver CD for Red Hat® Enterprise Linux® Desktop/Workstation and Ubuntu Linux®
- NVIDIA® and AMD accelerated graphics drivers that have passed HP quality standards and are compatible with the hardware platform and RHEL releases
- HP Documentation links
- Additional hardware drivers provided by HP that are not part of the standard Linux® distribution releases

For information on how to use the HP Driver CD, refer to the HP Linux® Workstation User manual at hp.com/support/linux_user_manual

What value does HP bring to Linux® on Personal Workstations?

HP brings the following value:

- Dedicated Linux® R&D team with 25+ years of experience in OS and driver development
- Close relationship with multiple third-parties to enable the complete Linux® workstation solution
- Extensive pre-sales technical support provided by HP engineering
- Detailed documents, drivers, and white papers published by HP on the support website regarding Linux® on HP Workstations

Docking stations

Do the legacy docking solutions used for the HP EliteBook 8470w/8570w/8770w work with the HP ZBook G2 Mobile Workstations?

The legacy docking solutions used for the HP EliteBook 8470w/8570w/8770w only work with the HP ZBook 15 G2 and HP ZBook 17 G2. To deliver the ultra-thin design of the new HP ZBook 14 G2 and 15u G2, a different, side-dock is required.

Warranty and support

Do the HP ZBook G2 Mobile Workstations utilize the same HP Elite Support that the HP EliteBook notebooks use today?

Yes. Our HP Elite Premium Support offers support to our customers that reside in the US or English-speaking regions of Canada.

- Simply call us at 1.866.625.1175. There are no phone trees, and no time-consuming menus to wade through
- Connect to an exclusively U.S.-based team of Elite accredited specialists available 24/7/365
- Schedule appointments to suit you—we'll make our schedule match yours
- Work with your agent of choice when calling—just ask for them by name
- Receive priority repair status at any HP repair center

What is the warranty and support for HP Workstations with Windows?

The standard limited warranty for HP Personal Workstations is 3-3-3 or 3-3-0 limited warranty depending on the country (three years parts, three years labor, and optional three years next business day on-site).¹⁴

What is the warranty and support for HP Workstations with Linux®?

The limited warranty for HP Workstations with Linux® is the standard 3-3-3 or 3-3-0 limited warranty depending on the country with 90 days of OS configuration and installation assistance.

Will HP stand behind Linux® when I have problems?

HP is the first place for support. Hardware and software warranties for the workstations with Linux® will be the same as that of the Windows workstations. Extended hardware service contracts (HP Care Packs) and software support options will also be available for purchase for if you need extended coverage.

Resources, contacts, or additional links for HP ZBooks

- HP ZBook 14 G2
hp.com/go/ZBook14
- HP ZBook 15u G2
hp.com/go/ZBook15u
- HP ZBook 15 G2
hp.com/go/ZBook15
- HP ZBook 17 G2
hp.com/go/ZBook17

Learn more about the HP Z family of products at
hp.com/zworkstations

¹Not all configurations qualify as an Ultrabook™.

²Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing system required. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

³Thunderbolt™ 2 is standard on the HP ZBook 15 G2 and HP ZBook 17 G2. Thunderbolt™ cable and Thunderbolt™ device (sold separately) must be compatible with Windows. To determine whether your device is Thunderbolt™ Certified for Windows, see thunderbolttechnology.net/products. Internet access required.

⁴Sold as an optional feature.

⁵HP Remote Graphics Software requires Windows or Linux and an internet connection.

⁶HP Performance Advisor requires Windows and an internet connection.

⁷All HP ZBooks are designed to MIL-STD 810G testing. Testing was not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions.

⁸HD content required to view HD images.

⁹Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

¹⁰For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB of system disk is reserved for system recovery software.

¹¹With Blu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played

¹²Windows 7 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See bapco.com for additional details.

¹³Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. See microsoft.com.

¹⁴NBD as part of the standard limited warranty may vary by country. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at hp.com/go/cpc. Service levels and response times for HP Care Packs may vary depending on your geographic location.

¹⁵SATA hardware RAID is not supported on Linux systems. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID. Please visit h20000.www2.hp.com/bc/docs/support/SupportManual/c00060684/c00060684.pdf for RAID capabilities with Linux.

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